

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	SAM ADJ SUN.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 13:53
S2	0	SAM-Shajing ADJ SUN.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 13:54
S3	0	Shajing ADJ SUN.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 13:54
S4	128	Sam and SUN.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 13:54
S5	2	"Sam SUN".IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 13:54
S6	3	"Sun, Sam".IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 13:55
S7	0	("60428108").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/05 15:21
S8	0	"supra molecular nano structure"	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:22
S9	8	"polymeric solar cell"	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:22
S10	2	"Semiconducting Polymer thin Films"	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:36
S11	0	Ullrich ADJ Scherf.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:36
S12	87	Scherf.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:37
S13	0	S2 and ullrich.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:37
S14	0	Scherf,Ullrich.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:37
S15	87	Scherf.IN.	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:37
S16	28742	tertiary and "block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:38
S17	34	"tertiary block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:38
S18	2	S17 and @pd<"20021114"	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:40
S19	7	"non-conjugated bridge" and @pd<"20021114"	US-PGPUB; USPAT	ADJ	ON	2007/02/05 15:40
S20	3287	"processing polymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 11:53
S21	100	"RO-PPV"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 11:53

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S22	3	S21 and @pd<"20021104"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 11:54
S23	2	2002-0003025	US-PGPUB; USPAT	ADJ	ON	2007/02/06 14:36
S24	0	"method for forming" and "organic photovoltaic"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 14:37
S25	0	"method of forming" and "organic photovoltaic"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 14:37
S26	239	"forming" and "organic photovoltaic"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 14:37
S27	26	S26 and "block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 14:37
S28	2	S27 and @pd<"20021104"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 14:44
S29	23537	"forming polymers"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 14:44
S30	13487	S29 and @pd<"20021104"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:50
S31	0	"Photovoltaic block copolymer" and @pd<"20021104"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:51
S32	1	"Photovoltaic block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:51
S33	1	Photovoltaic ADJ "block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:51
S34	0	Photovoltaic ADJ copolymer	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:51
S35	1652	Photovoltaic And copolymer	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:51
S36	1652	Photovoltaic and copolymer	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:52
S37	1108	solar and "block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:53
S38	312	"solar cell" and "block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:53
S39	394	S37 and @pd<"20021104"	US-PGPUB; USPAT	ADJ	ON	2007/02/06 15:53
S40	6	ECD.AS.	US-PGPUB; USPAT	ADJ	ON	2007/02/08 09:30
S41	163	Ovonics.AS.	US-PGPUB; USPAT	ADJ	ON	2007/02/08 09:33
S42	2	S41 and microcrystalline ADJ Silicon	US-PGPUB; USPAT	ADJ	ON	2007/02/08 14:44
S43	1399	"crystalline silicon" and photovoltaic	US-PGPUB; USPAT	ADJ	ON	2007/02/08 14:45

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S44	7	"crystalline silicon" and ovonics.AS.	US-PGPUB; USPAT	ADJ	ON	2007/02/08 14:46
S45	0	"pin junction" and ovonics.AS.	US-PGPUB; USPAT	ADJ	ON	2007/02/08 14:46
S46	0	"p-i-n junction" and ovonics.AS.	US-PGPUB; USPAT	ADJ	ON	2007/02/08 14:47
S47	0	"p-i-n"and ovonics.AS.	US-PGPUB; USPAT	ADJ	ON	2007/02/08 14:47
S48	149	"p-i-n junction" and crystalline silicon	US-PGPUB; USPAT	ADJ	ON	2007/02/08 14:47
S49	107	S48 and photovoltaic	US-PGPUB; USPAT	ADJ	ON	2007/02/08 15:09
S50	1399	"crystalline silicon" and photovoltaic	US-PGPUB; USPAT	ADJ	ON	2007/02/08 15:12
S51	141	S50 and pin ADJ junction	US-PGPUB; USPAT	ADJ	ON	2007/02/08 15:19
S52	193	microcrystalline ADJ silicon and "pin junction"	US-PGPUB; USPAT	ADJ	ON	2007/02/08 15:20
S53	139	S52 and @pd<"20030509"	US-PGPUB; USPAT	ADJ	ON	2007/02/08 17:14
S54	952	136/249	US-PGPUB; USPAT	ADJ	ON	2007/02/08 17:14
S55	703	S54 and @pd<"20030509"	US-PGPUB; USPAT	ADJ	ON	2007/02/08 17:15
S56	1	("2949498").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/12 08:38
S57	29004	tertiary and "block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:29
S58	0	photovoltaic adj diblock adj copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:30
S59	1	photovoltaic adj block adj copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:30
S60	1	photovoltaic near block near copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:30
S61	70594	block near copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:32
S62	0	block near9s0 copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:32
S63	659	block near(s) copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:33
S64	10	D-A adj heterojunction	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:34
S65	63	donor and acceptor adj heterojunction	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:36

## EAST Search History

S66	5	S65 and bridge	US-PGPUB; USPAT	ADJ	ON	2007/03/06 08:57
S67	83	donor near bridge	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:29
S68	514	synthesis near block near copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:30
S69	0	synthesis near conjugated near donor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:30
S70	2	synthesis near conjugated near copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:31
S71	2	synthesis adj conjugated near copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:31
S72	719	synthesis and conjugated near copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/06 09:32
S73	108	synthesis and conjugated near donor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:58
S74	1	polycondensation and conjugated near donor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:58
S75	0	(polycondensation and conjugated) near donor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:59
S76	0	(polycondensation ADJ conjugated) near donor	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:59
S77	0	(polycondensation near donor) near bridge	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:59
S78	1	(polycondensation near donor)	US-PGPUB; USPAT	ADJ	ON	2007/03/06 10:59
S79	39	polycondensation same conjugate	US-PGPUB; USPAT	ADJ	ON	2007/03/06 11:03
S80	271	polycondensation same (conjugate or donor or bridge)	US-PGPUB; USPAT	ADJ	ON	2007/03/06 11:28
S81	2	09/912444.APP.	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:04
S82	40	alignment near conjugate	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:07
S83	5	(alignment near conjugate)and magnetic	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:11
S84	2	(alignment near conjugate)and force	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:13
S85	36	(alignment near conjugate)and (fields)	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:16
S86	6	(alignment near conjugate)same(fields)	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:17
S87	2	(alignment near field)same(conjugate)	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:17

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S88	6	(alignment near field)same(copolymer)	US-PGPUB; USPAT	ADJ	ON	2007/03/06 16:18
S89	5	(External near Field) same "block copolymer"	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:22
S90	45	(External near Field) same copolymer	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:25
S91	17	((External near Field) same copolymer )same alignment	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:27
S92	4	(External near Field) same (copolymer near alignment)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:39
S93	23	(External near Field) same (polymer near alignment)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 09:52
S94	23	S93 and optical	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:00
S95	0	(external near field) same (polymer near alignment) same (optical near tweezers)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:01
S96	0	(external near field) same (alignmentnear polymer) same (optical near tweezers)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 10:12
S97	1	("6312303").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/07 10:12
S98	1	("5041510").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/07 11:07
S99	0	(cleaning near conducting near glass)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:08
S100	5	(conducting near glass)same(sulfuric and acid)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:14
S101	1	(conducting near glass)same(sulfuric and cleaning)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:14
S102	7	(conducting near glass)same(sulfuric or cleaning)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:17
S103	0	cleaning conducting glass	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:17
S104	3	cleaning same (conducting near glass)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:17
S105	1254	cleaning same (ITO)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:18
S106	0	cleaning same (ITO near sulfuric)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:18
S107	0	cleaning same (glass near sulfuric)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:18
S108	2	clean same (glass near sulfuric)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:18

## EAST Search History

S10 9	1	(cleaning solution) same (conducting glass)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:19
S11 0	0	(sulfuric solution) same (conducting glass)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:19
S11 1	6	(sulfuric or cleaning) same (conducting glass)	US-PGPUB; USPAT	ADJ	ON	2007/03/07 11:19
S11 2	1	("4332649").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/07 15:02
S11 3	1	("5972124").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/07 15:02